

### A Point of Space.

The diameter of the earth's orbit, is, as it were, the pocket rule of the Astronomer, with which he measures distances which the mind can no more grasp than infinity. This star measure is one hundred and ninety millions of miles in length. This the Astronomer lays down on the floor of heaven, and drawing lines from its extremes to the nearest fixed star—or a *Contour*—he finds the angle thus subtended by this base line, to be not quite one second! By this simple rule of Thales he then arrives at the fact that the nearest fixed star is in 21,000,000,000,000. From another simple calculation, it follows, that in the space round our solar system devoid of stars, there is room in one dimension, or in one straight line, for 12,000 solar systems; in two dimensions, or in one plane, there is room for 130 millions of solar systems; and in actual sidereal space of three dimensions there is room for 1,500,000,000,000 of solar systems, the size of our own. Nay, good farmer, do not look so unbelievingly. Your boy need not graduate from the district school to prove all this. One and a half million millions of solar systems as large as ours, might be set in the space which divides between it and its nearest neighbor. And if we might assume the aggregate population of our solar system to be 20,000,000,000, then there would be room enough for *Thirty Thousand Trillions* of human beings to live, love, and labor, in the worlds that might be planted in this same starless void.

Nay, good man of the tow flock, hold in a moment longer. Our sun is but a dull, hazy speck of light in the great Milky Way; and Dr Herschel says he discovered *fifty thousand* just such suns at that highway of worlds, in a space apparently a yard in breadth and six in length. Think of that, a moment! and then that no two of them are all probably nearer each other than *twenty billions of miles!* and then that the starless space between their solar systems might contain 1,500,000,000,000 of similar systems! Multiply these spaces and these systems by a hundred millions, and you will have numbered the worlds that a powerful glass will open to your view from *one point of space*. Again, multiply these systems by twenty thousand millions, and you will have three billion trillions of human beings who might dwell in peace and unity in that point of space which Herschel's glass would disclose to your vision. And you ask despairingly, What is man? We will tell you what he is in one respect; the Creator of all these worlds is his God.—Cz. Czter.

PUMPING THE WATER OUT OF LAKE MICHIGAN. It is well known to our readers that by an arrangement with the English bondholders, the State of Illinois has given over to them the unfinished canal, from the waters of Lake Michigan at Chicago to the Illinois river. They are about completing it, but the principal difficulty now is to supply it with water, owing to the level of the Lake being *sight below* the bottom of the canal. To overcome this the present company, after various propositions, finally brought themselves of raising the water of the Lake so as to supply the canal.

They wrote to Messrs. Knapp & Totten, of this city, and furnished them with data to calculate whether it could be done, and what force and what machinery would accomplish it. These gentlemen soon furnished an answer, and the other day received in return an order to build some powerful machinery for that purpose, a steam engine and eight pumps of four and a half, bore and six feet stroke. We are glad to hear that this eminently scientific firm have been elected to execute this order. Their shop and mechanical force is not exceeded by any establishment in the United States. *Pittsburg Gaz.*

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**FASHIONABLE TAILOR,**  
DEALERS IN  
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For Adams' Worcester Dye House,  
Brattleboro, April 16, 1845. 34

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DEALERS IN  
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**HOMER FOOT & CO., SPRINGFIELD,** offer for sale the above articles at wholesale and retail as low as can be purchased in any market, for cash or approved credit. Their assortment of Hardware is very large, and imported by themselves expressly for the country trade, and is generally of superior quality.

**NAILS**—They are agents for the sale of the celebrated "Old Colony" brand, and always sell as low as can be purchased in the city, adding freight.

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Sept. 12. 44

**The American Plaster,**  
FOR THE CURE OF  
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**NO** article in the form of a plaster can be found that has not afforded the same amount of relief as the American Plaster in this country, as has this plaster within a short period since its introduction to the notice of the public. Thousands who have been relieved from the most distressing rheumatic pains in a few hours after their application, will bear witness to their value. In their favor, it can be shown by letters and certificates from various parts of the country. They are not only a mere remedy for the RHEUMATISM, but for all afflictions of the KNEE, BACK, SHOULDER, SIGH, &c., and in fact, in all cases where plasters may be used with any prospect of success, these will be found to operate like a charm.

The plasters are prepared by dipping the medicated cotton in the material, thereby forming a basis which renders them much more durable than any other plasters are spread, and are put at the same place of the Poor Man's or the Cheap Plaster, which brings them within the reach of all who use them. A few trials in any commodity will insure confidence.

Prepared and sold by A. F. WHITTEMORE, Esq.,  
Also, for sale by J. A. SMITH, Brattleboro; Birchard & Sawyer, Fayville; Nathaniel Cheney, Townsend; H. Smith, Lodi; J. A. Smith, & Co., Pittsfield; H. Smith, & Co., Plymouth; E. Clever & Co., Bridgewater; T. A. B. White, Northfield; A. Lamson & Co., Brattleboro; and agents generally throughout the State.

Sept. 15, 1845. 44

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